

UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office

Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

551	HAL NUMBER	11485. 20.	FIRST	NAMED INVENTOR		ATTORNEY DOCKET NO.
07/	717,960	New Y	- 2 252 X 1		9	
						EXAMINER
					MIS, b	especification to
	E K. Mausa				Franklig (C)	
	BOR DRIV				ART UNIT	PAPER NUMBER
14,31	RINGTON,		K.5		2502	100
						المحارية
s is a co	ammunication from th	na overmenare i vina	्राट के your application.		DATE MAILED:	03/20 / 92
	ONER OF PATENT					,
•						
					10 60	
[his ap	olication has been	examined	Responsive to com.	munication filed on	2/92 0	This action is made final.
				17		
			this action is set to expire_	month		ys from the date of this letter.
re to re	spona within the	perioa for respo	nse will cause the applicati	on to become abandone	d. 35 U.S.C. 133	
1 7	THE FOLLOWING	ATTACHMENT	(S) ARE PART OF THIS AC	CTION:		
X	Notice of Reference	ces Cited by Exa	aminer, PTO-892.	2. Notice re F	atent Drawing, PTO	-948.
	Notice of Art Cited	by Applicant, F	PTO-1449.			cation, Form PTO-152.
	nformation on Ho	w to Effect Drav	ving Changes, PTO-1474.	6. 🔲		
j) :	SUMMARY OF AC	CTION				
	1-7					
X	Claims	<u> </u>				are pending in the application
	Of the above	e, claims		·	are ·	withdrawn from consideration.
_						
LJ (Claims					have been cancelled.
	laims					_ are allowed.
V Z1 c	Claims <u>/-37</u>	7				
	daillis 1 0 0					_ are rejected.
	claims					are objected to.
	laime					on an alastian or
(naillis			are	subject to restriction	on or election requirement.
□ 1	his application ha	s been filed with	h informal drawings under 3	37 C.F.R. 1.85 which are	acceptable for exam	nination purposes.
	ormal drawings a	re required in re	sponse to this Office action	1.		
	anningo a	/ • • • • • • • • • • • • • • • • • •				
			gs have been received on _			.R. 1.84 these drawings
а	re 🗌 acceptabl	ie. 🗌 not acce	ptable (see explanation or N	Notice re Patent Drawing	ı, PTO-948).	
□ +	he proposed addi	itional or substit	ute sheet(s) of drawings, file	ed on	hae (haya) haan [annroyed by the
			examiner (see explanation)		nas (nave) peen l	ш арргочео ву ше
			, ,	,		
□ T	he proposed draw	ing correction,	filed on	, has been 🔲 appro	oved. disapprov	red (see explanation).
	cknowledgment is	s made of the cl	aim for priority under U.S.C	C. 119. The certified copy	has Deen rece	ived not been received
			n, serial no.			
_	_ Doon mount pa	on apphoanti	1, 00 tur 110.	, HIGO ON _		
			e in condition for allowance		ers, prosecution as t	o the merits is closed in
a	ccordance with th	e practice unde	r Ex parte Quayle, 1935 C.C	D. 11; 453 O.G. 213.		•
По	that					

Serial No. 717,860

Art Unit 2502

The disclosure is objected to because of the following informalities:

- a. In claim 1, line 15, "substantively" was changed to --substantially-- in the amendment filed May 1, 1991.
- b. In claim 12, line 18, --a-- has been inserted before "part" in the amendment filed May 1, 1991.
- c. In claim 24, line 1, "electronci" should be --electronic--. Appropriate correction is required.

The information disclosure statement filed 12/13/90 and 6/19/91 fails to comply with the provisions of MPEP 609 because copies and explanations were not provided (see MPEP 609). It has been placed in the application file, but the information referred to therein has not been considered as to the merits.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. § 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

Claim 19 is rejected under 35 U.S.C. § 102(e.) as being clearly anticipated by Stolz.

There are no shunt diodes in the disclosures predating the Stolz reference. See Fig. 3 of Stolz; transistors Q3 and Q4 each supply a respective pulse at a periodic rate and having variable

Serial No. 717,860
Art Unit 2502

widths which are less than half of the duration of the period.

Any frequency can be called a "fundamental"; the astable oscillator 100 provides a fundamental frequency.

Claims 1-18 and 20-30 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-26 and 1-35 of U.S. Patent No. 4,279,011 and U.S. patent no. 4,441,087, respectively. Although the conflicting claims are not identical, they are not patentably distinct from each other because the means claimed in the patents provide the waveforms presently claimed. One of ordinary skill in the art would have found the presently claimed waveform generating means obvious in view of the means claimed in the patents which generate the waveforms.

The obviousness-type double patenting rejection is a judicially established doctrine based upon public policy and is primarily intended to prevent prolongation of the patent term by prohibiting claims in a second patent not patentably distinct from claims in a first patent. In re Vogel, 164 USPQ 619 (CCPA 1970). A timely filed terminal disclaimer in compliance with 37 C.F.R. § 1.321(b) would overcome an actual or provisional rejection on this ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 C.F.R. § 1.78(d).

The following is a quotation of the appropriate paragraphs of 35 U.S.C. § 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -(b) the invention was patented or described in a printed
publication in this or a foreign country or in public use or
on sale in this country, more than one year prior to the
date of application for patent in the United States.

Serial No. 717,860

Art Unit 2502

Claims 1-18 and 20-30 are rejected under 35 U.S.C. § 102(b) as being clearly anticipated by Nomura et al. or Schreiner.

The references predate the present invention and disclose means for keeping the switches of inverters from firing at the same time by making them fire for less than half of the period of the inverter fundamental frequency.

The following is a quotation of 35 U.S.C. § 103 which forms the basis for all obviousness rejections set forth in this Office action:

A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Subject matter developed by another person, which qualifies as prior art only under subsection (f) or (g) of section 102 of this title, shall not preclude patentability under this section where the subject matter and the claimed invention were, at the time the invention was made, owned by the same person or subject to an obligation of assignment to the same person.

Claims 1-30 are rejected under 35 U.S.C. § 103 as being unpatentable over Nomura et al. or Schreiner.

It would have been obvious to one of ordinary skill in the art to incorporate the timing of the references in other known inverters.

-5-

Art Unit 2502

Any inquiry concerning this communication should be directed to Exr. Mis at telephone number (703) 308-4907.

Mis/jm March 26, 1992

DAVID MIS EXAMINER GROUP ART UNIT 252